- **3-81.** Find each of the following products by drawing and labeling a generic rectangle or by using the Distributive Property. Homework Help ✎

  a. $-4y(5x + 8y)$

  b. $9x(-4 + 10y)$

  c. $(x^2 - 2)(x^2 + 3x + 5)$

3-83. Find the dimensions of the generis rectangle below. Then write an equivalency statement (length · width = area) of the area as a product and as a sum. Homework Help ✎

x^2	$-5x$
$3x$	-15

- **3-84.** Solve for x. Use any method. Check your solutions by testing them in the original equation. Homework Help ✎

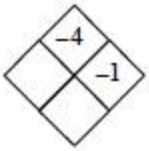
  a. $|x-3| = 5$

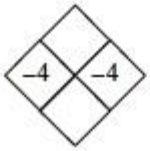
  b. $5|x| = 35$

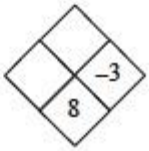
  c. $|x+1| = 2$

  d. $|x+3| = -2$

- **3-85.** Copy and complete each of the Diamond Problems below. The pattern used in the Diamond Problems is shown at right. Homework Help ✎

- a. 

b. 

c. 

d. 

- **3-86.** If $f(x) = 7 + |x|$ and $g(x) = x^3 - 5$, then find: Homework Help ✎
  a. $f(-5)$
  b. $g(4)$
  c. $f(0)$
  d. $f(2)$
  e. $g(-2)$
  f. $g(0)$